

# KENWOOD

## TM-541A

FM MOBILE TRANSCEIVER

**E**

xtremely compact and lightweight, Kenwood's TM-541A 1200 MHz FM mobile transceiver is perfect for automobile installation and enhances night-time operation thanks to its illuminated keys, large LCD, and backlit mic with DTMF.

- 10W RF power output
- Easy-to-read, easy-to-operate illuminated keys plus large LCD display
- Supplied multi-function backlit mic with DTMF
- 20 multi-function memory channels plus call channel
- Built-in selectable CTCSS tone encoder (decoder optional)
- ALI (Automatic Lock Tuning) function





### 10W RF power output

Rugged and compact, the TM-541A has an RF output of 10 watts. It also features a HI/LO power switch that allows for power reduction to 1 watt.

### Easy-to-read, easy-to-operate illuminated keys plus large LCD display

The functionally designed control panel with individually backlit keys greatly enhances convenience and ease of operation during night-time use. Another welcome feature is the large, built-in multi-function LCD display which provides optimum visibility in direct sunlight or after dark. The display indicates frequency, frequency step, memory channel, tone frequency, lock-out memory channel, S & RF meter, BUSY, LOW, DTSS, T (Tone), REV (Reverse), CTCSS, and tone alert system. There are also dimmer controls which adjust LCD brightness in 4 steps to match ambient lighting conditions.

### Supplied multi-function backlit mic with DTMF

For enhanced operating ease in low-light situations, the supplied microphone is designed with large, backlit keys. Controls are provided on the microphone for CALL (call channel), VFO, MR (memory recall or change the memory channel) and a programmable function key. The programmable function key can be used to control one of the following functions on the radio: MHz, SHIFT, TONE, REV, DR/DT, LOW or MONITOR.

### Specifications

TM-541A	
<b>GENERAL</b>	
Frequency Range	1240 ~ 1900 MHz
Mode	F3E (FM)
Power Requirement	13.8 V DC $\pm 15\%$ (negative ground)
Current Drain	
Transmit (HI)	Less than 8 A
Receive (no signal)	Less than 600 mA
Operating Temperature Range	-4°F ~ +140°F
Antenna Impedance	50 $\Omega$
Microphone Impedance	500 $\Omega$ ~ 600 $\Omega$
External Speaker Impedance	8 $\Omega$
Frequency Tolerance	$\pm 3$ ppm (14°F ~ 122°F)
Dimensions (W x H x D) [projections not included]	5.51 x 1.57 x 8.30 inches
Weight	2.4 lbs.
<b>TRANSMITTER</b>	
RF Output Power	
HI	10 W
LO (approx.)	1 W
Modulation	Resonance modulation
Maximum Frequency Deviation	$\pm 5$ kHz
Modulation Distortion (Modulation degree 60%)	Less than 3% (300 Hz ~ 3 kHz)
<b>RECEIVER</b>	
Circuitry	Double conversion superheterodyne
Intermediate Frequency	
1st IF	59.7 MHz
2nd IF	455 kHz
Sensitivity (12 dB SINAD)	Less than 0.16 $\mu$ V
Selectivity	
-6 dB	More than 12 kHz
-80 dB	Less than 36 kHz
Squelch Sensitivity	Less than 0.1 $\mu$ V
Audio Output Power	More than 2 W (8 $\Omega$ , 5% distortion)

Kenwood follows a policy of continuous advancement in development. For this reason specifications may be changed without notice.

These specifications are guaranteed for Amateur Bands only.



Communications Equipment Division  
Kenwood Corporation  
ISO9001 certification

### 20 multi-function memory channels plus call channel

20 memory channels allow storage of frequency, TONE/CTCSS frequency, TONE ON/OFF status, and REV, for quick and easy access during mobile operation. Three channels (1-3) are used to store DTSS codes and ON/OFF status. Four channels (7, 8, 9 and 10) are used to store the transmit and receive frequencies independently for odd split repeaters.

### Built-in selectable CTCSS tone encoder

Any one of the 38 sub-tone frequencies may be selected using the "Tone" key. The optional decoder enables all 37 EIA standard CTCSS frequencies, selectable via the main knob.

### ALT (Automatic Lock Tuning) function

The automatic lock tuning function compensates for frequency drift.

- Tone alert system with elapsed time indicator
- DTSS (Dual Tone Squelch System) function
- Pager function
- Auto-power off function
- Time-out timer
- Lock function
- Multi-scan function
- MHz switch
- Programmable call channel function
- Programmable VFO
- Frequency step selection
- Offset switch and repeater reverse switch

### Optional Accessories



Not all products available in all markets.

### KENWOOD CORPORATION

14-6, 1-chome, Dogenzaka, Shibuya-ku, Tokyo 150, Japan

### KENWOOD COMMUNICATIONS CORPORATION

#### AMATEUR RADIO PRODUCTS GROUP

P.O. Box 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745, U.S.A.

Customer Support/Brochures (310) 639-6300

Repair Locations/Parts (800) KENWOOD Bulletin Board Service (BBS) (310) 761-8264